

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/544,284B
Source: IFWP
Date Processed by STIC: 2/10/07

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/544,284B

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."

- 2 Invalid Line Length The rules require that a line **not exceed** 72 characters in length. This includes white spaces.

- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.

- 4 Non-ASCII The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. Please **ensure your subsequent submission is saved in ASCII text**.

- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for **each** skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped
 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If **intentional**, please insert the following lines for **each** skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000

- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.
 In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.

- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence. (see item 11 below)

- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules

- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

- 13 Misuse of n/Xaa "**n**" can **only** represent a single nucleotide; "**Xaa**" can **only** represent a single amino acid



IFWP

RAW SEQUENCE LISTING

DATE: 02/10/2007

PATENT APPLICATION: US/10/544,284B

TIME: 09:53:52

Input Set : A:\corrected 70235USPCT.ST25.txt

Output Set: N:\CRF4\02102007\J544284B.raw

3 <110> APPLICANT: Brown, Devon
 4 Campos, Manuel
 5 Dalmia, Bipin
 6 Demarest, Stephen
 7 Hansen, Genevieve
 8 Heifetz, Peter B.

10 <120> TITLE OF INVENTION: Expression in plants of antibodies against enterotoxigenic
 11 Escherichia coli

13 <130> FILE REFERENCE: 70235USPCT

15 <140> CURRENT APPLICATION NUMBER: 10/544,284B

16 <141> CURRENT FILING DATE: 2005-08-02

18 <150> PRIOR APPLICATION NUMBER: PCT/EP2004/001427

19 <151> PRIOR FILING DATE: 2004-02-16

21 <150> PRIOR APPLICATION NUMBER: US 60/448,429

22 <151> PRIOR FILING DATE: 2003-02-18

24 <160> NUMBER OF SEQ ID NOS: 80

26 <170> SOFTWARE: PatentIn version 3.3

28 <210> SEQ ID NO: 1

29 <211> LENGTH: 399

30 <212> TYPE: DNA

31 <213> ORGANISM: artificial sequence

33 <220> FEATURE:

34 <223> OTHER INFORMATION: codon optimised

36 <400> SEQUENCE: 1

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39 aagctctcct gcgcgcctc cggcttcacc ttctccgact acttcatgtc ctggattcgc	120
41 cagaccccg gagaagcgct ggagtgggtc gccaccatca acaacggcgg ctcccacacc	180
43 tactgtccg acaacgtgaa gggccgcttc accaccttcc gcgacaacgt gaagaacacc	240
45 ctctacctcc agatgtcctc cctcaacttc gaggacaccg ccatgtacta ctgcgcccgc	300
47 gcctactacc gcttcgacgt gcgcgcctgg ttctcctact ggggccaggg caccctcgtg	360
49 accgtgtcca cggccaagac caccgcgcg tccgtctac	399

52 <210> SEQ ID NO: 2

53 <211> LENGTH: 582

54 <212> TYPE: DNA

55 <213> ORGANISM: artificial sequence

57 <220> FEATURE:

58 <223> OTHER INFORMATION: codon optimised

60 <400> SEQUENCE: 2

61 agtgacatcc tcctcaccca gtccccggcc atcctctcca tgatccccgc ccagcgcgtg	60
63 tccttctcct gcgcgcctc ccagatcatc ggcaccacca tccactgggt ccagcagcgc	120
65 accgacggct cccgcgcct cctcatccag tgcgctccg agtccatctc cggcatcccg	180
67 tcccgcttct ccggcaccgg ctccggcacc gacttcacc tcaacttcaa ctccgtggag	240
69 tccgagtaca tcaccgacta ctactgccag cagtccaaca cctggccgac ctaccgcttc	300

see pp 1-46

Does Not Comply
Corrected Diskette Neededwhat is its' source? (e.g. viral?)
see item 11on Enn
summary
sheet

RAW SEQUENCE LISTING

DATE: 02/10/2007

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TIME: 09:53:52

Input Set : A:\corrected 70235USPCT.ST25.txt

Output Set: N:\CRF4\02102007\J544284B.raw

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75 ttctaccoga aggacatcaa cgtgaagtgg aagatcgacg gctccgagcg ccagaacggc 480
77 gtgctcaact cctggaccga ccaggactcc aaggactcca cctactccat gtccctccacc 540
79 ctcaccctca ccaaggacga gtacgagcgc cacaactcct ac 582
82 <210> SEQ ID NO: 3
83 <211> LENGTH: 399
84 <212> TYPE: DNA
85 <213> ORGANISM: mouse
87 <400> SEQUENCE: 3
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90 aaactctcct gtgcagcctc tggattcact ttcagtgaact atttcattgtc ttggattcgc 120
92 cagactccgg aaaagagggt ggagtgggtc gcaaccatta ataattggtg tagtcacacc 180
94 tactgttcag acaatgtgaa gggacgattt acaactttca gagacaatgt caaaaacacc 240
96 ctgtaccttc aaatgagcag tctgaacttt gaggacacag ccatgtatta ctgtgcaaga 300
98 gcctactata ggctcgacgt gagggcctgg tttctctatt ggggccaagg gactctggtc 360
100 actgtctcta cagccaaaac gacaccccca tctgtctac 399
103 <210> SEQ ID NO: 4
104 <211> LENGTH: 330
105 <212> TYPE: DNA
106 <213> ORGANISM: mouse
108 <400> SEQUENCE: 4
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111 gtcagtttct cctgcagggc cagtcagatc attggcacaac ccatacactg gtctcagcaa 120
113 agaacagatg gttctcctag gcttctcata cagtgtgctt ctgagtctat ctctgggatc 180
115 ccttccaggt ttagtggcac tggatcaggg acagatttta ctcttaactt caacagtgtg 240
117 gagtctgaat atattacaga ttattactgt caacaaaagta atacctggcc aacgtacccc 300
119 ttcggagggg ggaccaagct cgagataaaa 330
122 <210> SEQ ID NO: 5
123 <211> LENGTH: 396
124 <212> TYPE: DNA
125 <213> ORGANISM: artificial sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: codon optimised
130 <400> SEQUENCE: 5
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133 aagctctcct gcgcccctc cggttcacc ttctcctcct tcgccatgca ctgggtgctc 120
135 caggccccag agaagggcct ggagtgggtg gcctacatct cctccggctc catcaccatc 180
137 tactacgccc acaccgtgaa gggccgcttc accgtgtccc gcgacaacc gaagtccacc 240
139 ctcttctctc agatgacctc cctccgcagc gaggacaccg ccatgtacta ctgcgcccgc 300
141 gacgactacg gctcctccgg ctggtacttc gacgtctggg gcgctggcac cacggtgacc 360
143 gtgtcctcgg ccaagaccac cccgccgtcc gtctac 396
146 <210> SEQ ID NO: 6
147 <211> LENGTH: 336
148 <212> TYPE: DNA
149 <213> ORGANISM: artificial sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: codon optimised
154 <400> SEQUENCE: 6

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RAW SEQUENCE LISTING

DATE: 02/10/2007

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TIME: 09:53:52

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Output Set: N:\CRF4\02102007\J544284B.raw

155 actagtgcaca tcgtgatgtc ccagtcctccg tcctccctcg ccgtgtccgc tggcgagaag 60
 157 gtcaccatgt cctgcaagtc ctcccagtc ctcctcaact ccgcacccg caagaactac 120
 159 ctgccttgt atcagcagaa gccgggccag tccccgaagc tcctcatcta ctgggcctcc 180
 161 accgcgagtc ccggcggtgc ggaccgcttc accggctccg gctccggcac cgacttcacc 240
 163 ctccaccatct cctccgtgca ggcggaggac ctccgctgtg actactgcac ccagtcctac 300
 165 aacctcctca ccttcggcgc cgggtaccaag ctcgag 336
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 169 <211> LENGTH: 393
 170 <212> TYPE: DNA
 171 <213> ORGANISM: artificial sequence
 173 <220> FEATURE:
 174 <223> OTHER INFORMATION: anti0k88 codon optimised VH from 36-41
 176 <400> SEQUENCE: 7
 177 actagtgcagg tccagctgca gcagtcctgga cctgaactag tgaagactgg ggcttcagtg 60
 179 aagatatcct gcaaggcttc tgattactca ctactgatt actacatgca ctgggtcaag 120
 181 cagagccatg gagagagcct tgagtggatt ggatatatta atttttacaa tgggtgctact 180
 183 aactacaacc agaagttcaa gggcaaggcc acatttactg tagacacatc ctccagcaca 240
 185 gtctacatgc agttcaacag cctgacatct gaagactctg cgggtctatta ttgtgtaaga 300
 187 gaagcattac tacggaacta tgctatggac tactggggtc aaggaaacctc agtcaccgtc 360
 189 tcctcagcca aaacgacacc cccatctgtc tac 393
 192 <210> SEQ ID NO: 8
 193 <211> LENGTH: 324
 194 <212> TYPE: DNA
 195 <213> ORGANISM: artificial sequence
 197 <220> FEATURE:
 198 <223> OTHER INFORMATION: anti0K88 codon optimised VL from 36-41
 200 <400> SEQUENCE: 8
 201 actagtgaag atgtgctcac ccagtcctcca gcaatcatgt ctgcatctcc aggggaaaag 60
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 205 cagaagtcag gtgcctcccc caaactctgg atttatagca catccaactt ggcttctgga 180
 207 gtccctgctc gcttcagtg cagtgggtct gggacctctt actctctcac aatcagcagt 240
 209 gtggaggctg aagatgctgc cacttattac tggcagcaat acagtgggta cccgtggacg 300
 211 ttcgggtggag gcaccaagct cgag 324
 214 <210> SEQ ID NO: 9
 215 <211> LENGTH: 408
 216 <212> TYPE: DNA
 217 <213> ORGANISM: artificial sequence
 219 <220> FEATURE:
 220 <223> OTHER INFORMATION: anti0K88 codon optimised VH from 7-46
 222 <400> SEQUENCE: 9
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 225 agactctcct gtgttgccctc tggattcact ttcagtaact actggatgaa ctgggtccgc 120
 227 cagtctccag agaaggggct tgagtgggtt gctgaaatta gattgacatc taataatttt 180
 229 gcaacacatt atgcggagtc tgtgaaaggg aggttcacca tctcaagaga tgattccaaa 240
 231 agtagtgtct acctgcaaat gaacaactta agagctgaag aactggcat ttattactgt 300
 233 accaggcctt actacggtgg taggttcttc tactgggtact tcgatgtctg gggcgaggg 360
 235 accacggtca ccgtctcttc aacccaaacg acaccccat ctgtctac 408
 238 <210> SEQ ID NO: 10
 239 <211> LENGTH: 324

What's source?

RAW SEQUENCE LISTING

DATE: 02/10/2007

PATENT APPLICATION: US/10/544,284B

TIME: 09:53:52

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Output Set: N:\CRF4\02102007\J544284B.raw

240 <212> TYPE: DNA
 241 <213> ORGANISM: artificial sequence *what's source?*
 243 <220> FEATURE:
 244 <223> OTHER INFORMATION: anti-K88 codon optimised VL from 7-46
 246 <400> SEQUENCE: 10
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 249 atcactatca cctgcagtg cagctcaagt ataagttcca attacttgca ttggtatcag 120
 251 cagaagccag gattctcccc taaactcttg atttatagga catccaatct ggcttctgga 180
 253 gtcccagttc gcttcagtg cagtgggtct gggacctctt actctctcac aattggcacc 240
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 257 ttcggctcgg ggacaaagct cgag 324
 260 <210> SEQ ID NO: 11
 261 <211> LENGTH: 363
 262 <212> TYPE: DNA
 263 <213> ORGANISM: mouse
 265 <400> SEQUENCE: 11
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 268 tcctgtgcag cctctggatt cactttcagt agctttgcaa tgcactgggt tcgtcagggt 120
 270 ccagagaagg ggctggagtg ggtcgcatac attagtagtg gcagtattac catctatcat 180
 272 gcagacacag tgaagggccg attcaccgtc tccagagaca atcccaagag caccctgttc 240
 274 ctgcaaataa ccagtctaag gtctgaggac acggccatgt attactgtgc aagagacgac 300
 276 tacggtagta gcgggtggta cttcgatgtc tggggcgagc ggaccacggt caccgtctcc 360
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 282 <211> LENGTH: 350
 283 <212> TYPE: DNA
 284 <213> ORGANISM: mouse
 286 <400> SEQUENCE: 12
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 289 atgagctgca aatccagtc gagtctgtct aacagtagaa cccgaaagaa ctacttggct 120
 291 tgggtaccag agaaaccagg gcagttcctt aaactgctga tctactgggc atccactagg 180
 293 gaatctgggg tccctgatcg ctccacaggc agtggatctg ggacagattt cacycctacc 240
 295 atcagcagtg tgcaggctga agacctggca gtttattact gcacgcaatc ttataatctg 300
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 301 <211> LENGTH: 410
 302 <212> TYPE: DNA
 303 <213> ORGANISM: mouse
 305 <400> SEQUENCE: 13
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 310 catggagaga gccttgagtg gattggatat attaattttt acaatgggtg tactaactac 180
 312 aaccagaagt tcaagggcaa ggccacattt actgtagaca catcctccag cacagtctac 240
 314 atgcagttca acagcctgac atctgaagac tctgcggtct attattgtgt aagagaagca 300
 316 ttactacgga actatgctat ggactactgg ggtcaaggaa cctcagtcac cgtctcctca 360
 318 gccaaaacga caccctccatc tgtctatcca ctggccccta ctagtgctgc 410
 321 <210> SEQ ID NO: 14
 322 <211> LENGTH: 317
 323 <212> TYPE: DNA

RAW SEQUENCE LISTING

DATE: 02/10/2007

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Input Set : A:\corrected 70235USPCT.ST25.txt..

Output Set: N:\CRF4\02102007\J544284B.raw

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324 <213> ORGANISM: mouse
326 <400> SEQUENCE: 14
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331 tcaggtgcct ccccaaaact ctggatttat agcacatcca acttggcttc tggagtccct      180
333 gctcgcttca gtggcagtggt gtctgggacc tcttactctc tcacaatcag cagtgtggag      240
335 gctgaagatg ctgccactta ttactgccag caatacagtg gttacccgtg gacgttcggt      300
337 ggaggcacca agctgga                                     317
340 <210> SEQ ID NO: 15
341 <211> LENGTH: 374
342 <212> TYPE: DNA
343 <213> ORGANISM: mouse
345 <400> SEQUENCE: 15
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348 tcctgtgttg cctctggatt cactttcagt aactactgga tgaactgggt ccgccagtct      120
350 ccagagaagg ggcttgagtg ggttgctgaa attagattga catctaataa ttttgcaaca      180
352 cattatgcgg agtctgtgaa agggagggtc accatctcaa gagatgattc caaaagtagt      240
354 gtctacctgc aaatgaacaa cttaagagct gaagacactg gcatttatta ctgtaccagg      300
356 ccttaactacg gtggtaggtt cttctactgg tacttcgatg totggggcgc agggaccacg      360
358 gtcaccgtct cctc                                     374
361 <210> SEQ ID NO: 16
362 <211> LENGTH: 318
363 <212> TYPE: DNA
364 <213> ORGANISM: mouse
366 <400> SEQUENCE: 16
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369 atcacctgca gtgccagctc aagtataagt tccaattact tgcattggta tcagcagaag      120
371 ccaggattct cccctaaact cttgatttat aggacatcca atctggcttc tggagtccca      180
373 gttcgcttca gtggcagtggt gtctgggacc tcttactctc tcacaattgg caccatggag      240
375 gctgaagatg ttgccactta ctactgccag cagggttaata gtataaccatt cacgttcggc      300
377 tcggggacaa agctcgag                                     318
380 <210> SEQ ID NO: 17
381 <211> LENGTH: 134
382 <212> TYPE: PRT
383 <213> ORGANISM: artificial sequence
385 <220> FEATURE:
386 <223> OTHER INFORMATION: anti-K99 heavy chain variable region
388 <400> SEQUENCE: 17
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391 1          5          10          15
394 Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
395          20          25          30
398 Ser Asp Tyr Phe Met Ser Trp Ile Arg Gln Thr Pro Glu Lys Arg Leu
399          35          40          45
402 Glu Trp Val Ala Thr Ile Asn Asn Gly Gly Ser His Thr Tyr Cys Ser
403          50          55          60
406 Asp Asn Val Lys Gly Arg Phe Thr Thr Phe Arg Asp Asn Val Lys Asn
407 65          70          75          80
410 Thr Leu Tyr Leu Gln Met Ser Ser Leu Asn Phe Glu Asp Thr Ala Met

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/544,284B

DATE: 02/10/2007
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Input Set : A:\corrected 70235USPCT.ST25.txt
Output Set: N:\CRF4\02102007\J544284B.raw

FYI
Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:18; Xaa Pos. 225,226

Seq#:80; Xaa Pos. 2

VERIFICATION SUMMARY

DATE: 02/10/2007

PATENT APPLICATION: US/10/544,284B

TIME: 09:53:53

Input Set : A:\corrected 70235USPCT.ST25.txt

Output Set: N:\CRF4\02102007\J544284B.raw

L:498 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:224

L:1890 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:0